

X-LNG CASE STUDY · NOV 2025

Cancellation Profitability

23

cargoes cancelled when PSV slumps 25%; the base plan exercises its cancellation options on just 4

Cancellable book · Jan 2027 to Dec 2029

Price sweeps · HH, TTF and PSV at $\pm 25\%$

Charter + spot tests · the levers that barely matter

A cancellable Mediterranean book

European utility · US supply against Italian and NWE demand · sequel to the regas-slot option study

\$144.2m

base profit · \$1.38/MMBtu

4

cancellations in the base plan

10

firm cargoes/yr: 5 Sabine, 3 Livorno, 2
NWE

5

spot markets: Freeport, Dahej,
Shenzhen +

Supply on **120% HH** formulas (Sabine Pass +\$2, Livorno +\$4, NWE Flex +\$3.80); demand at Livorno on **PSV - \$0.25**, NWE and Bizkaia on TTF discounts. All firm supply plus the Italian demand carry cancellation rights. The question this time: **not what the option is worth, but when it gets used.**

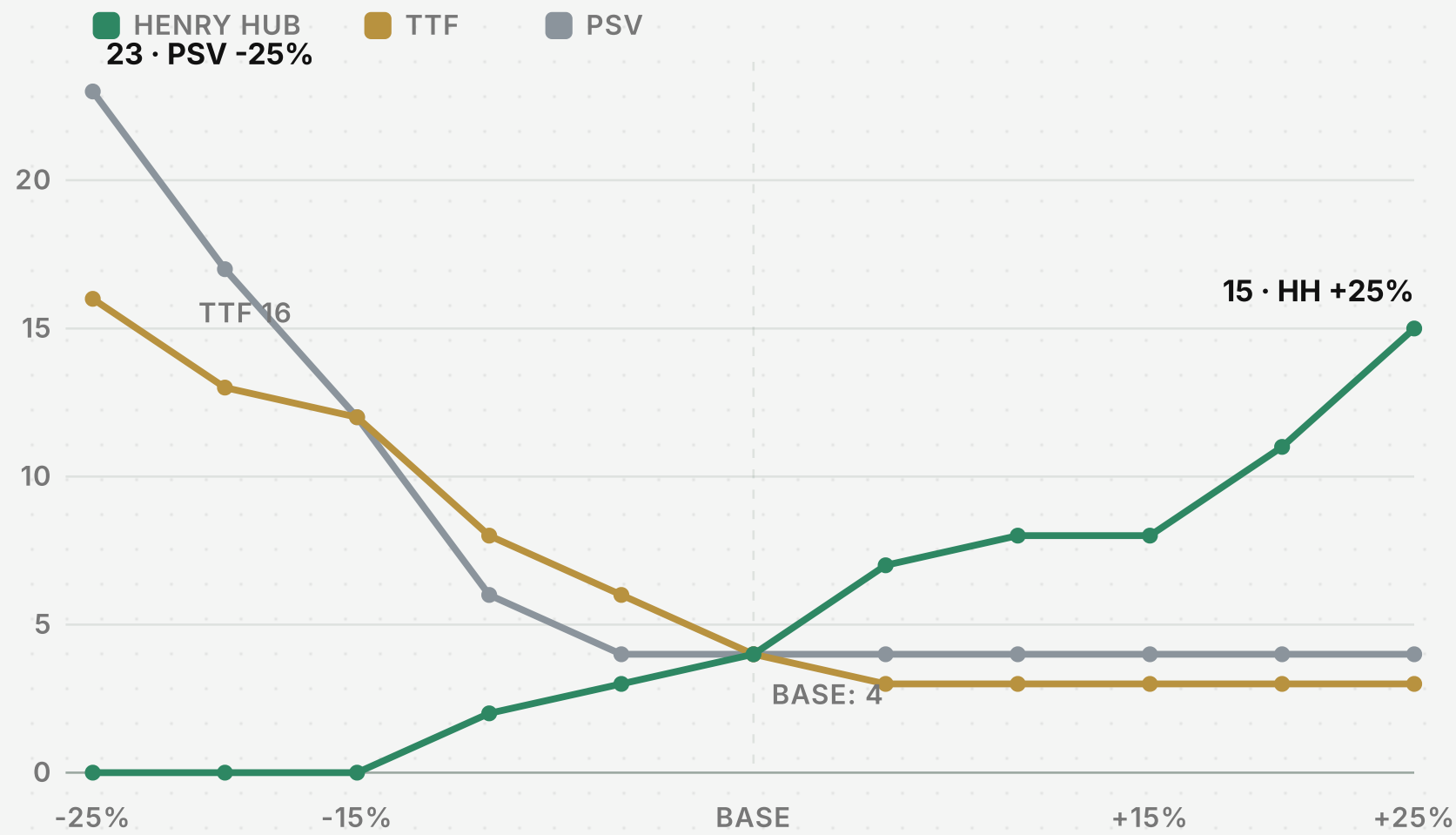
Price sweeps

Each index varied -25% to +25%, the book re-optimised at every step

01

Each index pulls a different lever

Cancelled cargoes per re-optimised plan across the sweep



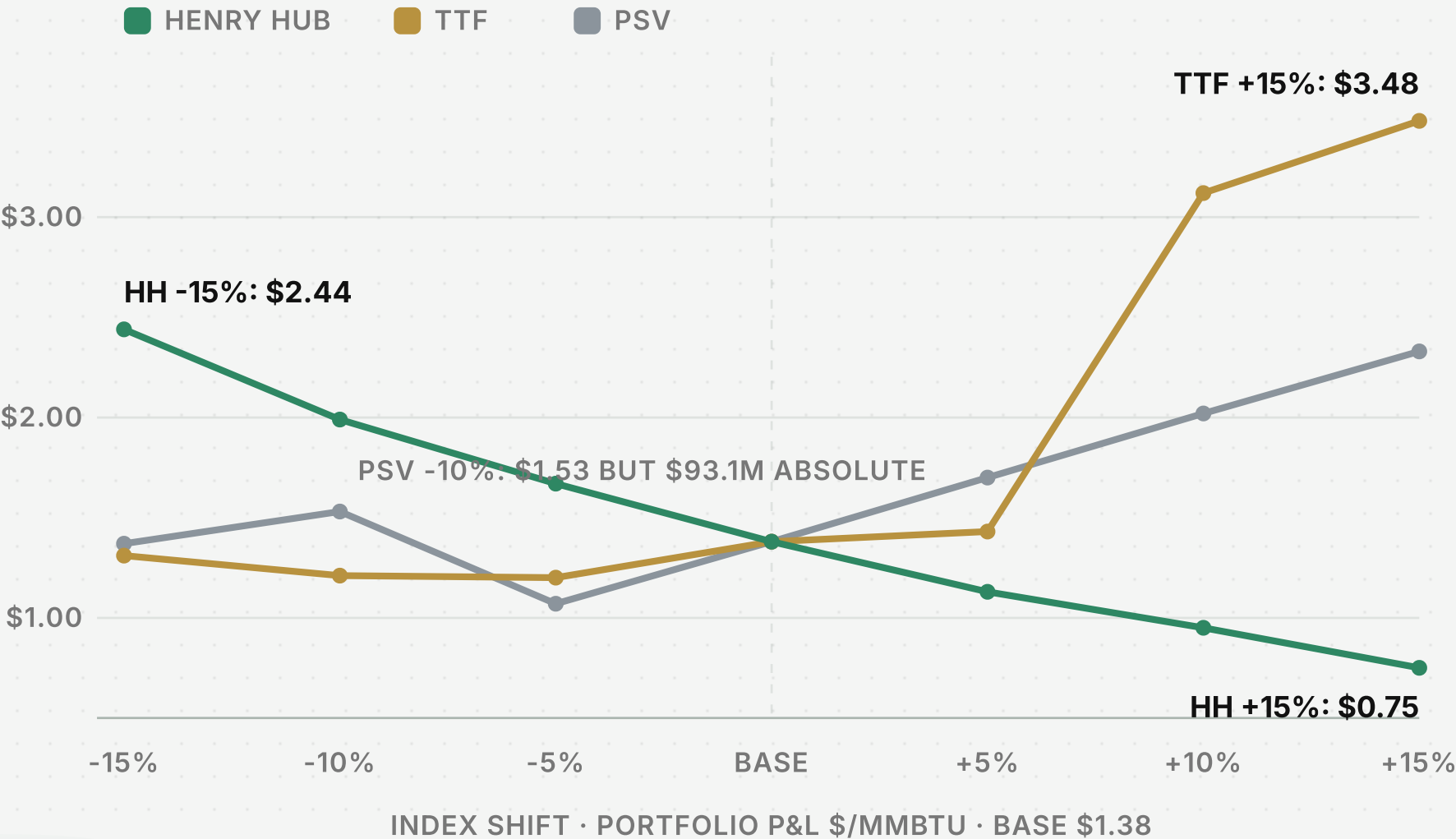
INDEX LEVEL VS BASE · CANCELLED CARGOES OF THE OPTIMAL PLAN

EXACT TABLE VALUES AT ±5/10/15% · CHART READ AT ±20/25%

Henry Hub rallies drive cancellations up as firm HH supply loses to spot; PSV and TTF slumps spike them as spot beats firm delivery.

Margin often moves the other way

Portfolio P&L per MMBtu under the same shifts

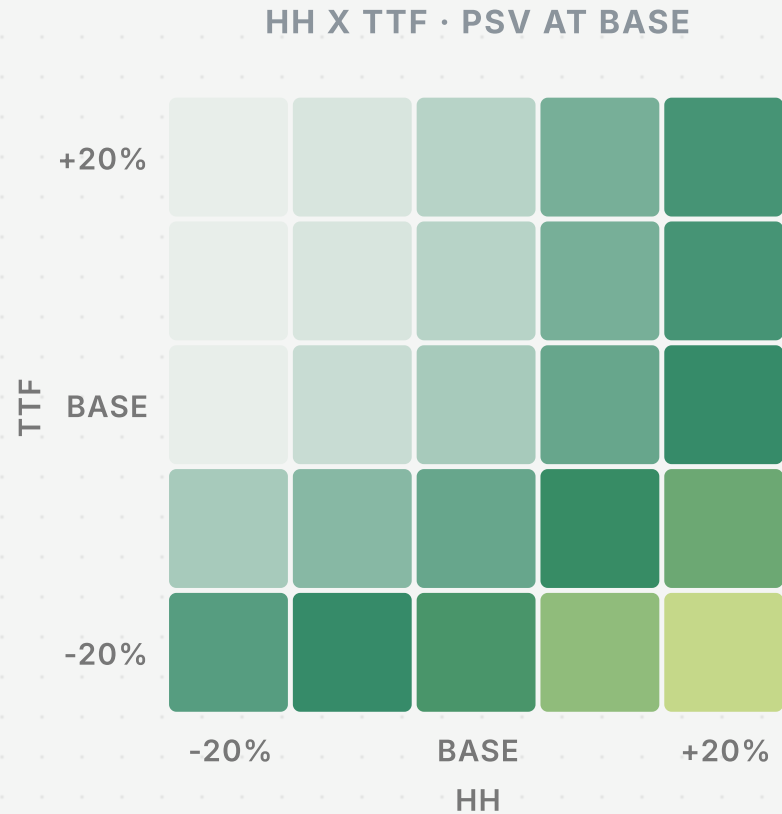


EXACT ENGINE VALUES PER SHIFT · BASE \$1.38/MMBTU, \$144.2M

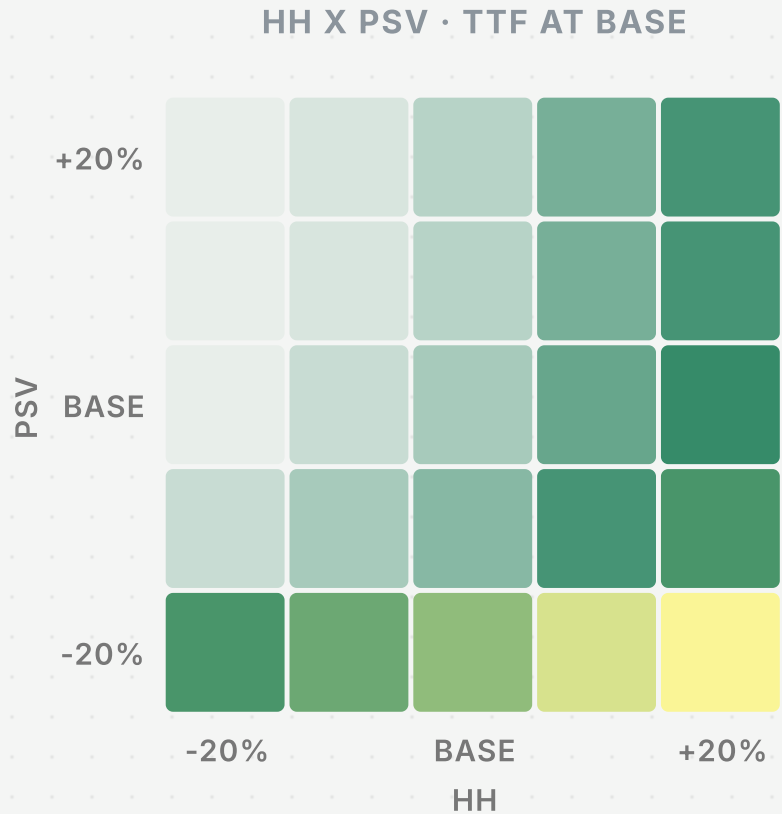
A TTF rally lifts the margin to \$3.48 with FEWER cancellations; a PSV slump shows \$1.53/MMBtu on only \$93.1M absolute profit.

Where the cancellations live

Two indices varied at once: the cancellation surface



DARK = FEW · BRIGHT = MANY



WORST CORNER: HH UP, PSV DOWN · UP TO 23

CELL COLOURS QUALITATIVE, LABELLED ANCHORS FROM THE ENGINE RUNS · SCALE 0 TO 23

The worst corner is a Henry Hub rally meeting a PSV slump: unlikely, since the two are highly correlated, but exactly what hedges should be sized against.

THE VERDICT

**Henry Hub rallies drive cancellations up, PSV slumps spike them to 23:
and charter seasonality changes almost nothing.**

Cancellation rights are a price-index story. Knowing which index moves your count, and which merely moves your margin, is what turns an option clause into a managed position.

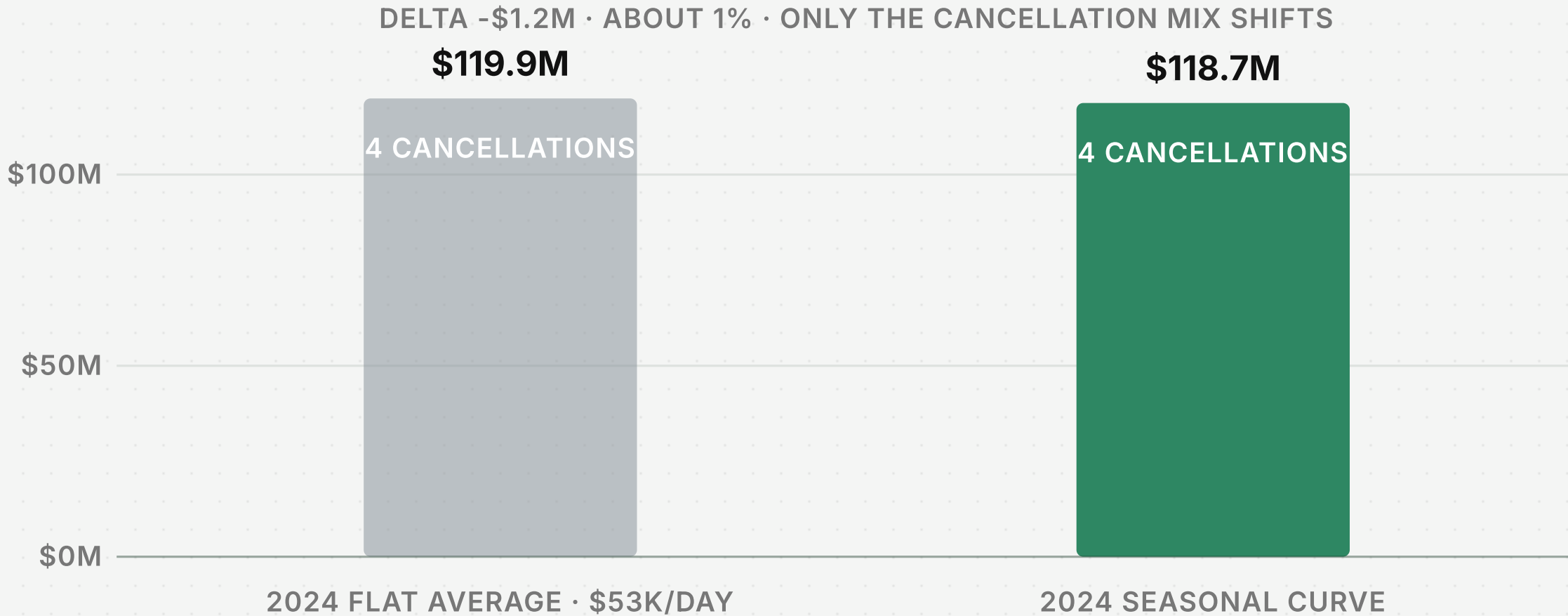
The other levers

Charter seasonality and extra spot markets, tested the same way

02

Charter seasonality barely matters

— Flat \$53k/day average against the full 2024 seasonal curve

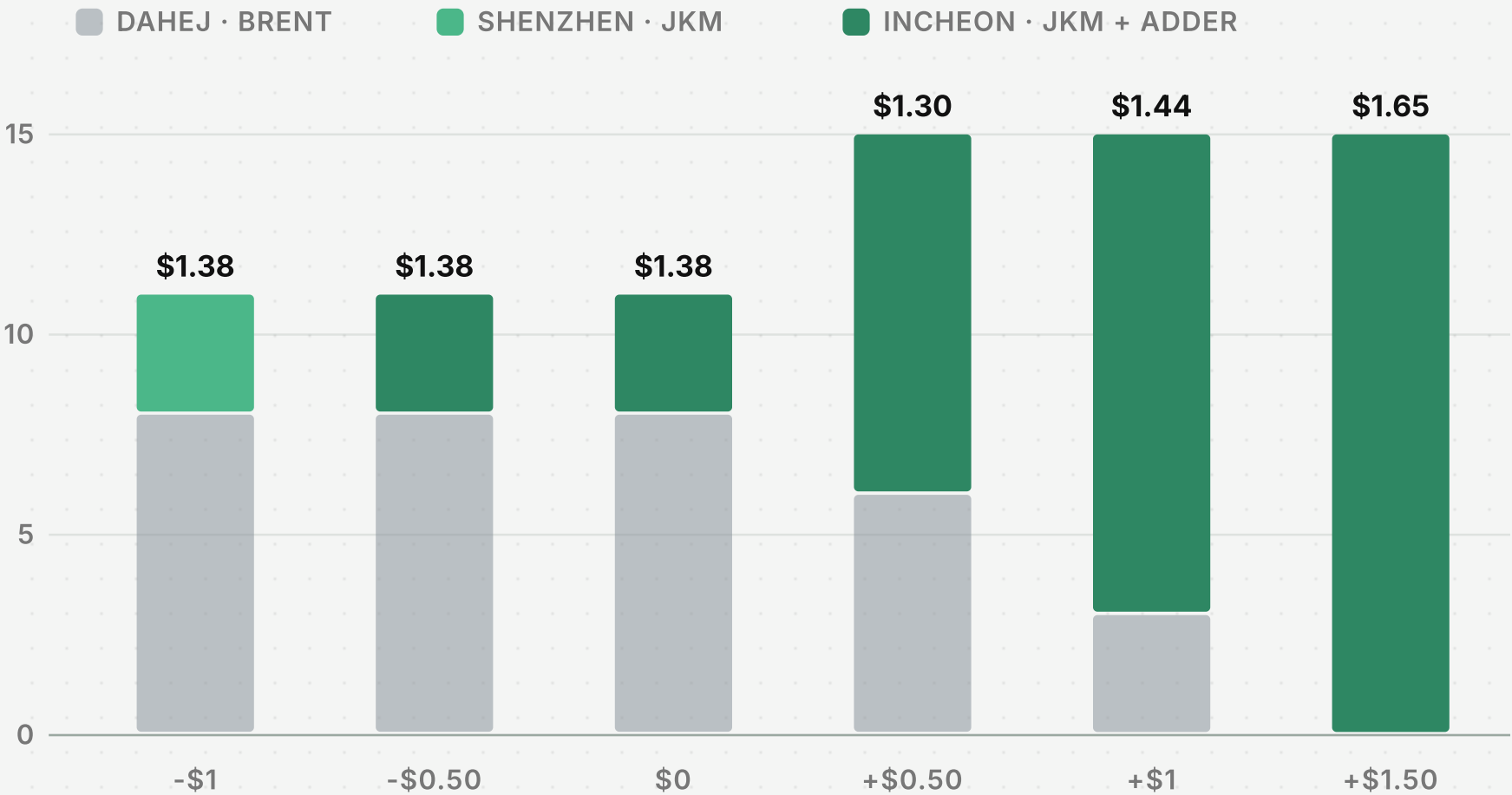


2018-2024 SEASONAL AVERAGES CONFIRM: STILL 4 CANCELLATIONS AT \$1.24/MMBTU

About one percent of profit and an unchanged count of four; only the cancellation mix shifts slightly.

Extra spot markets re-route, not cancel

A new Incheon outlet with a swept JKM adder



INCHEON JKM ADDER · DELIVERIES PER SPOT MARKET · \$/MMBTU ABOVE EACH STACK

SWITCHING TO INCHEON BECOMES FAVOURABLE AROUND +\$1 · BRENT-INDEXED DAHEJ IS SURPRISINGLY ROBUST

Deliveries move port by port with the adder, but every single scenario still cancels exactly four cargoes.

Takeaways

— What moves the count, what moves the money



Each index pulls a different lever

HH rallies: 15 cancellations at +25%. PSV and TTF slumps: 23 and 16 at -25%. The base plan cancels just 4.



Cancellations and margin move independently

TTF +15% lifts the margin to \$3.48/MMBtu with fewer cancellations; PSV -10% shows \$1.53/MMBtu on only \$93.1M absolute.



Freight and extra outlets are background noise

Seasonal charter rates move profit ~1% and leave the count at 4; new spot markets re-route deliveries but never change how many cargoes get cancelled.

Modelled with X-LNG

— Whole-portfolio optimisation for LNG books

1

Your world goes in

Contracts, vessels, charter rates, prices, spot assumptions and constraints, the full book, not a slice.

2

One optimal plan comes out

Feasible, P&L-maximising and constraint-compliant, re-solved for every scenario in minutes.

3

Every number checks out

Each result can be recalculated by hand, transparency your risk committee can audit.

See when your book should cancel

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